



#### **Zsh Cheat Sheet** Installing Zsh Commands sudo dnf Installs Zsh with user's package manager on install zsh Fedora, CentOs and RHEL sudo apt Installs Zsh with user's package manager on install zsh Debian and Ubuntu sudo port Installs Zsh with user's package manager on install zsh MacOS and user can install it using MacPorts brew install Installs Zsh with user's package manager on MacOS and user can install it using zsh Navigation Commands Changes the current directory сd Moves up one level in the directory cd .. hierarchy Changes the current directory to the root cd / directory Changes the current directory to your home cd ~ directory Changes the current directory and resolves cd -P symbolic links Changes the current directory without cd -L resolving symbolic links сd Changes the current directory to the /path/to/dir specified directory path ectory Opens the current directory in Visual Studio code. Code dirs Displays or manipulates the directory stack Opens the current directory in the default explorer. file explorer (on Windows) Lists files and directories in the current ls directory Opens the current directory in the default open. file explorer (on macOS) Changes the current directory and pushes pushd the current directory onto the directory Removes entries from the directory stack and changes the current directory to the popd popped directory

Shows the current working directory pwd

#### Variable & Environment

<u>declare</u>	Displays or sets shell variables		
<u>export</u>	Sets environment variables		
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#### **Control Flow and Script Execution**

	-	
break	Exits from a loop or switch statement	
bye	Exits the shell	
continue	Skips the remaining iterations of a loop and starts the next iteration	
return	Exits a function with an optional return value	
<u>exit</u>	Exits the shell with an optional exit status	
fc	Manages and edits command history	
shift	Shifts positional parameters to the left by a specified number	
test	Evaluates conditional expressions and performs tests	
trap	Sets or displays actions to be taken when a signal is received	
Process Control Commands		
bg [job]	Resumes suspended jobs in the background	
disown [job]	Removes jobs from the job table, allowing them to continue running	
fg [job]	Brings jobs to the foreground	
<u>jobs</u>	Lists active jobs and their statuses	
<u>kill</u> [options] job	Sends signals to processes or job IDs	
suspend [- f]	Suspends the current shell session	
wait [job ]	Waits for background jobs to complete	
Input/Output Commands		
<u>echo</u>	Displays a line of text or the value of a variable on the terminal	

Displays text or variables on the terminal, and various formatting options and can be used to print control the output appearance



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readonly	Marks variables as read-only	rea
typeset	Declares variables with specific attributes	tty
unset	Unsets variables or functions	
unsetopt	Disables shell options	if
Command Execution and Environment		
noglob	Executes a command without performing globbing on arguments	els
rehash	Updates the internal hash table of executable commands	fi
<u>source</u>	Executes commands from a file in the current shell session	do
<u>time</u>	Displays the system and user times for the current shell session	do
Cor	mmand Information and	foi
	Location	501
unhash	Removes commands from the internal hash table	un
where	Displays all locations where a command is defined	wł
<u>which</u>	Displays the path to the executable file of a command	
whence	Displays information about a command, including its type and location	fc
Sł	nell Built-In Commands	ge
<u>alias</u>	Defines or lists aliases for commands	ge op
weating	Demovies alieses for commande	

Removes aliases for commands

Executes a built-in shell command

read	Reads input from the user or from a file and assigns it to variables and allows user to prompt for input, store the entered values, and perform further processing based on the
ttyctl -fu	Controls terminal settings and behavior, and - fu options force a flush of the terminal output buffer, ensuring that all pending output is displayed immediately
Со	nditional Execution and
if	Executes a block of code based on a condition, If the condition is true, the code within the "if"
then	Specifies the start of the code block to be executed if the condition of an "if" statement is true
else	Specifies the code block to be executed if the condition of the preceding "if" statement is false
fi	Marks the end of an "if" statement
do	Specifies the start of the code block to be executed in a "for" or "while" loop
done	Marks the end of a "for" or "while" loop
for	Executes a block of code repeatedly for a specified number of iterations or for each item in a list
until	Executes a block of code repeatedly until a certain condition is true
while	Executes a block of code repeatedly as long as a certain condition is true
Histo	ory and Command Editing
fc	Views, edits, re-executes, or changes the order of previously entered commands
getln	Displays the command history, showing a list of previously executed commands along with their line numbers
getopts optstring	Allows to process command-line arguments and options, and enables to create more interactive and flexible shell scripts

<u>unalias</u>

builtin



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Displays the command history, showing a list of previously executed commands along with

disable	Disables shell built-in commands or functions.	<u>history</u>	of previously their line num
<u>enable</u>	Enables shell built-in commands or functions	File a	nd Direc
false	Returns a non-zero exit status	<u>ср</u>	Creates copie
functions	Lists or defines functions	file	Displays infor
unfunction	Removes defined shell functions	<u>mkdir</u>	Creates a nev
hash	Displays or modifies command hash table	mkcd	Creates a new current direct
set	Sets or displays shell options or positional parameters	<u>mv</u>	Moves or ren
setopt	Sets or displays shell options	<u>rm</u>	Removes a fi
true	Returns a zero exit status	rm -r	Removes a di recursively
type	Displays information about a command	<u>touch</u>	Creates an er and modifica
typeset	Declares or displays shell variables with additional attributes	zmv	Allows users complex patt
unset	Unsets shell variables or functions	zmvn	Allows users sorting order sequences in
unsetopt	Unsets shell options	Load	ling & Ur
unscropt		Loui	
unsetopt	Miscellaneous		Loads one or Zsh shell
		zmodload - dL	Loads one or
zcalc	Miscellaneous Performs arithmetic calculations directly in	zmodload - dL zmodload -	Loads one or Zsh shell Loads one or error messag Loads module
zcalc xargs	Miscellaneous Performs arithmetic calculations directly in the shell Allows users to apply another command to a list of arguments, similar to xargs but with	zmodload - dL zmodload - e zmodload [ -a [ -bcp [ -1 ] ] [ -iL	Loads one or Zsh shell Loads one or error messag Loads module
zcalc xargs zprof zstyle	MiscellaneousPerforms arithmetic calculations directly in the shellAllows users to apply another command to a list of arguments, similar to xargs but with enhanced featuresProvides profiling information for Zsh startup files, allowing user to optimize their	zmodload - dL zmodload - e zmodload [-a [-bcp [-1]]][-iL ] zmodload -u [-	Loads one or Zsh shell Loads one or error messag Loads module options Unloads mod
zcalc xargs zprof	MiscellaneousPerforms arithmetic calculations directly in the shellAllows users to apply another command to a list of arguments, similar to xargs but with enhanced featuresProvides profiling information for Zsh startup files, allowing user to optimize their loading timeCustomizes the behavior and appearance of the shell by setting various options and	zmodload - dL zmodload - e zmodload [-a [-bcp [-1]]][-iL ] zmodload -u [- abcdp [-1] zmodload - d [-L][	Loads one or Zsh shell Loads one or error messag Loads module options Unloads mod unloading op
zcalc xargs zprof zstyle	MiscellaneousPerforms arithmetic calculations directly in the shellAllows users to apply another command to a list of arguments, similar to xargs but with enhanced featuresProvides profiling information for Zsh startup files, allowing user to optimize their loading timeCustomizes the behavior and appearance of the shell by setting various options and stylesApplies another command to a list of	zmodload - dL zmodload - e zmodload [-a [-bcp [-1]]][-iL ] zmodload -u [- abcdp [-1] zmodload - d [-L][ name] zmodload -	Loads one or Zsh shell Loads one or error messag Loads module options Unloads mod unloading op Unloads a spe modules

of previously executed commands along with their line numbers Ind Directory Management

	ina Bricetory management	
ср	Creates copies of files and directories	
file	Displays information about the specified file(s)	
<u>mkdir</u>	Creates a new directory	
mkcd	Creates a new directory and changes the current directory to it in a single command	
<u>mv</u>	Moves or renames files and directories	
<u>rm</u>	Removes a file	
rm -r	Removes a directory and its contents recursively	
<u>touch</u>	Creates an empty file or updates the access and modification timestamps of an existing	
zmv	Allows users to rename multiple files using complex patterns and expressions.	
zmvn	Allows users to files rename using natural sorting order, which handles numerical sequences in a more human-friendly way	

### oading & Unloading Modules

zmodload - dL	Loads one or more shared modules into the Zsh shell
zmodload - e	Loads one or more modules and generates error messages if loading fails
zmodload	
[ -a [ -bcp [ -I ] ] ] [ -iL ]	Loads modules, specifying various loading options
zmodload -u [ - abcdp [ -I ]	Unloads modules, specifying various unloading options
zmodload - d [ -L ] [ name ]	Unloads a specific module or all loaded modules
zmodload - d name	Unloads a module and its dependencies
zmodload - ud name [ dep ]	Unloads a module and its dependencies and unloads any unused modules
zmodload -	Lists all available built-in modules

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vared	Provides a convenient way to edit variables in the shell using the editor specified by the EDITOR environment variable	zmodload - ab [ -i ] name [ builtin ]	Loads one or more built-in modules and generates error messages if loading fails
push-line	Pushes the current command line onto the buffer and allows you to continue editing it, useful for complex command constructions	zmodload - ub [ -i ] builtin	Unloads one or more built-in modules
autoload	Allows users to lazily load Zsh functions	zmodload - ac [ -IL ]	Lists all available conditional modules
clone/detach	Allow you to create new instances of the current shell, either as a forked child process (clone) or as a detached background process (detach)	zmodload - ac [ -il ] name [ cond ]	Loads one or more conditional modules and generates error messages if loading fails
zcompile	Compiles Zsh scripts into a more efficient format, which can improve their execution time	zmodload - uc [ -il ] cond	Unloads one or more conditional modules
zpty	Provides a way to create and interact with pseudo-terminals from within Zsh	zmodload - ap [ -L ]	Lists all available parameter expansion modules
ztcp	Allows users to create TCP and UDP connections directly from the shell. It can be used for various network-related tasks	zmodload - ap [ -i ] name [ parameter ]	Loads one or more parameter expansion modules and generates error messages if loading fails
zsocket	Allows users to create and interact with Unix domain sockets from within Zsh. This can be useful for inter-process communication	zmodload - up [ -i ] parameter 	Unloads one or more parameter expansion modules
zparseopts	Simplifies the handling of command-line options and arguments in Zsh scripts by providing a convenient way to parse and process them	zmodload - a [ -L ]	Lists all available modules
zregexparse	Provides a way to parse text using regular expressions and extract specific elements of interest. It is particularly useful for text	zmodload - a [ -i ] name [	Loads one or more modules and generates error messages if loading fails
zsh-mime- setup	Configures default programs and actions associated with different MIME types in the Zsh environment	zmodload  - ua [ -i ] builtin	Unloads one or more modules
		zmodload -	

e [ string ... Evaluates the given strings as Zsh code ]